

## **Malate dehydrogenase recombinant from Microorganism**

**Product Code:** 181102

**EC:** 1.1.1.37

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**SKU:** 181102

**Category:** [Enzymes](#)

### **PRODUCT DESCRIPTION**

### **SPECIFICATIONS**

**EC 1.1.1.37**

Product name: (s)-malate: NAD<sup>+</sup> oxydoreductase

Appearance: White amorphous powder lyophilized

Activity: > 60 U/mg powder

Contaminants: Glutamate oxaloacetate transaminase  $\leq 1.0 \times 10^{-3}$  %

Lactate dehydrogenase  $\leq 1.0 \times 10^{-3}$  %

NADH oxidase  $\leq 1.0 \times 10^{-4}$  %

Stability: Stable at - 20°C for at least 12 months

Molecular weight: Approx. 140,000

Isoelectric point: pH  $4.8 \pm 0.1$

Michaelis constants:  $5.4 \times 10^{-5}$  M (L-Malate),  $5.0 \times 10^{-6}$  M (Oxaloacetate),  $8.1 \times 10^{-6}$  M (NADH)

Inhibitors: Hg<sup>2+</sup>

Optimum pH: 8.0

Optimum temperature: 70 °C

pH Stability: pH 3.0 - 9.0 (25 °C, 20hr)

Thermal stability: Below 70 °C (pH 7.5, 15min)